



Department of Commerce

Safety & Buildings Division

201 West Washington Avenue

P.O. Box 2689

Madison, WI 53701-2689

Approval #

980067-U (Replaces 960001-U,  
930036-U & 910062-U)

## Wisconsin Material Approval

Material

U-Fuel Storage Tank, U-Dump Waste Oil Storage Tank  
U-Fuel Fire Resistant Fuel System, Thermo Tank Insulated Storage Tank, and  
Fuel Trailer Portable Fueling System

Manufacturer

U-Fuel, Inc.  
5110 Fairview Drive  
P.O. Box 1511  
Eau Claire WI 54702

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### SCOPE OF EVALUATION

The tank for the U-Fuel Fueling System and the tank and fire-resistant features of the U-Fuel Fire Resistant Fuel System were evaluated as a fueling system for use at commercial, industrial, governmental or manufacturing establishments where vehicles are fueled for use in connection with their business, at residential or commercial marine service stations, and at private registered airports in accordance with ss. **ILHR 10.415 and 10.42**.

The U-Dump Waste Oil Storage System was evaluated as a public waste oil collection tank in accordance with s. **ILHR 10.33** and as a private waste oil collection tank in accordance with NFPA 30.

The Thermo Tank Insulated Storage Tank was evaluated in accordance with ss. **ILHR 10.345 (1) and 10.415 (7) (b)**.

Evaluation of the dispenser, fuel lines, power sources and other appurtenances is not covered by this approval unless specifically mentioned.

### DESCRIPTION AND USE

The basic U-Dump and U-Fuel tanks covered by this approval consist of a double wall UL 142 listed tank with or without supports. The U-Fuel Fueling System and U-Fuel Fire-Resistant Fueling System are supplied with integral dispensing equipment. Top loading systems are available in sizes ranging from 550 to 4,000 gallons. Bottom loading systems are available in sizes ranging from 4,000 to 20,000 gallons.

The Thermo Tank is a UL 2085 listed, double wall fire-rated tank using ceramic fiber insulation.

The U-FUEL Fire Resistant Fuel System Consists of a U-FUEL Above Ground Fuel System including a SWRI 97-04 fire rated tank, with optional Internal Ignition Suppression System, and a dry chemical suppression system installed over the dispenser to protect the fueling area.

### TESTS AND RESULTS

The tanks are listed as meeting the UL 142 or SWRI 97-04 standards. Tanks listed as meeting SWRI 97-04 are considered to already meet UL 142. The Internal Ignition Suppression System is listed by Southwest Research Institute attesting to the workability of the fusible disk triggering system. The dry chemical suppression system is listed by UL.

### LIMITATIONS OF APPROVAL

The U-FUEL Fueling System and Fire Resistant Fuel System may be used for non-retail motor vehicle fueling, retail or non-retail aircraft fueling and retail or non-retail marine craft fueling.

The systems may be used for either attended or unattended fueling provided the appropriate operational requirements of NFPA 30A are met.

The double wall tanks with a combined wall thickness of 7/16 inch are approved for compliance with the secondary containment requirements of **ss. ILHR 10.345(1) and 10.415(7)(b)** and may be used without a dike, except for public-access waste oil collection. Public-access waste oil collection tanks shall be provided with a dike in accordance with **s. ILHR 10.33**.

Tanks listed in accordance with UL 2085 or SWRI 97-04 meet the requirements for 2-hour fire exposure and may be sited using the reduced setbacks under **s. ILHR 10.345(4)(b)2**.

Tanks up to 10,000 gallons may be used for vehicle fueling in accordance with **s. ILHR 10.415**.

The interstitial space shall be monitored for leaks. The monitor must be capable of detecting a leak from anywhere in the inner tank.

Compartmentalized tanks shall be constructed with a double bulkhead in accordance with UL Standard 142. This interstitial space between compartments shall be monitored for leaks.

A functioning spill container shall be provided at the fill opening in accordance with **s. ILHR 10.415(12)(a)**.

Separate vehicle collision protection shall be provided by a barrier that meets the design requirements specified in **s. ILHR 10.415(8)(a)**.

No attachments shall be made to the tank which violate or void the SWRI listing.

The tank shall be installed to allow full visual inspection of the secondary containment system.

The installer shall be certified by the department in accordance with **ch. Comm 5**

The emergency shutoff switch shall be sited in accordance with NFPA 30A.

For aircraft fueling, the hose shall meet the requirements of NFPA 407. A maximum length of 75 feet may be used on a hose reel. If a longer hose is needed due to aircraft size, the authority having jurisdiction may approve a hose length of up to 100 feet.

This approval will be valid through December 31, 2003, unless manufacturing modifications are made to the product or a re-examination is deemed necessary by the department. The Wisconsin Material Approval Number must be provided when plans that include this product are submitted for review.

#### DISCLAIMER

The department is in no way endorsing or advertising this product. This approval addresses only the specified applications for the product and does not waive any code requirement not specified in this document.

Reviewed by: \_\_\_\_\_

Approval Date: \_\_\_\_\_ By: \_\_\_\_\_

Duane Hubeler  
Code Consultant  
Program Development Bureau

980067-U